Zhen-Yu Zhang

List of Publications by Year
in descending order

95 papers	1,901 citations	279798 23 h-index	345221 36 g-index
95 all docs	95 docs citations	95 times ranked	2748 citing authors

#	Article	IF	Citations
1	Association of Office and Ambulatory Blood Pressure With Mortality and Cardiovascular Outcomes. JAMA - Journal of the American Medical Association, 2019, 322, 409.	7.4	265
2	Prediction of Chronic Kidney Disease Stage 3 by CKD273, a Urinary Proteomic Biomarker. Kidney International Reports, 2017, 2, 1066-1075.	0.8	77
3	Branched-Chain Amino Acids as Critical Switches in Health and Disease. Hypertension, 2018, 72, 1012-1022.	2.7	63
4	Proteomic Bioprofiles and Mechanistic Pathways of Progression to Heart Failure. Circulation: Heart Failure, 2019, 12, e005897.	3.9	63
5	Blood Pressure in Relation to Environmental Lead Exposure in the National Health and Nutrition Examination Survey 2003 to 2010. Hypertension, 2015, 65, 62-69.	2.7	58
6	Ambulatory Blood Pressure Monitoring to Diagnose and Manage Hypertension. Hypertension, 2021, 77, 254-264.	2.7	51
7	Vitamin K Dependent Protection of Renal Function in Multi-ethnic Population Studies. EBioMedicine, 2016, 4, 162-169.	6.1	44
8	Left Ventricular Structure and Function in Relation to Environmental Exposure to Lead and Cadmium. Journal of the American Heart Association, 2017, 6, .	3.7	42
9	Urinary Proteomics Pilot Study for Biomarker Discovery and Diagnosis in Heart Failure with Reduced Ejection Fraction. PLoS ONE, 2016, 11, e0157167.	2.5	42
10	Risk for Incident Heart Failure: A Subject–Level Meta–Analysis From the Heart "OMics" in AGEing (HOMAGE) Study. Journal of the American Heart Association, 2017, 6, .	3.7	41
11	Longitudinal Changes in LV Structure and Diastolic Function in Relation to Arterial Properties in General Population. JACC: Cardiovascular Imaging, 2017, 10, 1307-1316.	5.3	35
12	Left ventricular function in relation to chronic residential air pollution in a general population. European Journal of Preventive Cardiology, 2017, 24, 1416-1428.	1.8	35
13	Urinary Proteome and Systolic Blood Pressure as Predictors of 5-Year Cardiovascular and Cardiac Outcomes in a General Population. Hypertension, 2015, 66, 52-60.	2.7	33
14	Desphospho-uncarboxylated matrix Gla protein is a novel circulating biomarker predicting deterioration of renal function in the general population. Nephrology Dialysis Transplantation, 2018, 33, 1122-1128.	0.7	33
15	Cardiovascular End Points and Mortality Are Not Closer Associated With Central Than Peripheral Pulsatile Blood Pressure Components. Hypertension, 2020, 76, 350-358.	2.7	33
16	Opposing Age-Related Trends in Absolute and Relative Risk of Adverse Health Outcomes Associated With Out-of-Office Blood Pressure. Hypertension, 2019, 74, 1333-1342.	2.7	31
17	Novel Urinary Peptidomic Classifier Predicts Incident Heart Failure. Journal of the American Heart Association, 2017, 6, .	3.7	30
18	Prediction of acute coronary syndromes by urinary proteome analysis. PLoS ONE, 2017, 12, e0172036.	2.5	30

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19	Evidence-based proposal for the number of ambulatory readings required for assessing blood pressure level in research settings: an analysis of the IDACO database. Blood Pressure, 2018, 27, 341-350.	1.5	29
20	Incidence of nephrolithiasis in relation to environmental exposure to lead and cadmium in a population study. Environmental Research, 2016, 145, 1-8.	7.5	27
21	Does Extremely Low Birth Weight Predispose to Low-Renin Hypertension?. Hypertension, 2017, 69, 443-449.	2.7	27
22	Glomerular function in relation to circulating adhesion molecules and inflammation markers in a general population. Nephrology Dialysis Transplantation, 2018, 33, 426-435.	0.7	27
23	A Urinary Fragment of Mucin-1 Subunit Î± Is a Novel Biomarker Associated With Renal Dysfunction in the General Population. Kidney International Reports, 2017, 2, 811-820.	0.8	24
24	Diagnosis and management of resistant hypertension: state of the art. Nature Reviews Nephrology, 2018, 14, 428-441.	9.6	24
25	Association of Fatal and Nonfatal Cardiovascular Outcomes With 24-Hour Mean Arterial Pressure. Hypertension, 2021, 77, 39-48.	2.7	24
26	Outcome-Driven Thresholds for Ambulatory Blood Pressure Based on the New American College of Cardiology/American Heart Association Classification of Hypertension. Hypertension, 2019, 74, 776-783.	2.7	23
27	Diastolic left ventricular function in relation to circulating metabolic biomarkers in a population study. European Journal of Preventive Cardiology, 2019, 26, 22-32.	1.8	23
28	Diastolic Left Ventricular Function in Relation to Urinary and Serum Collagen Biomarkers in a General Population. PLoS ONE, 2016, 11, e0167582.	2.5	22
29	Conventional and Ambulatory Blood Pressure as Predictors of Retinal Arteriolar Narrowing. Hypertension, 2016, 68, 511-520.	2.7	20
30	Results of a randomized controlled pilot trial of intravascular renal denervation for management of treatment-resistant hypertension. Blood Pressure, 2017, 26, 321-331.	1.5	20
31	Epidemiologic observations guiding clinical application of a urinary peptidomic marker of diastolic left ventricular dysfunction. Journal of the American Society of Hypertension, 2018, 12, 438-447.e4.	2.3	20
32	Association between cognition and the retinal microvasculature in 11-year old children born preterm or at term. Early Human Development, 2018, 118, 1-7.	1.8	20
33	Blood pressure measurement in special populations and circumstances. Journal of Clinical Hypertension, 2018, 20, 1122-1127.	2.0	20
34	Risk Stratification by Cross-Classification of Central and Brachial Systolic Blood Pressure. Hypertension, 2022, 79, 1101-1111.	2.7	19
35	Inactive matrix Gla protein is a novel circulating biomarker predicting retinal arteriolar narrowing in humans. Scientific Reports, 2018, 8, 15088.	3.3	17
36	Urinary Peptidomic Biomarker for Personalized Prevention and Treatment of Diastolic Left Ventricular Dysfunction. Proteomics - Clinical Applications, 2019, 13, 1800174.	1.6	17

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37	Urinary peptidomic profiles to address age-related disabilities: a prospective population study. The Lancet Healthy Longevity, 2021, 2, e690-e703.	4.6	17
38	Diastolic Left Ventricular Function in Relation to Circulating Metabolic Biomarkers in a General Population. Journal of the American Heart Association, 2016, 5, e002681.	3.7	16
39	A novel urinary biomarker predicts 1-year mortality after discharge from intensive care. Critical Care, 2020, 24, 10.	5.8	16
40	Isolated Diastolic Hypertension in the IDACO Study: An Age-Stratified Analysis Using 24-Hour Ambulatory Blood Pressure Measurements. Hypertension, 2021, 78, 1222-1231.	2.7	16
41	Retinal microvascular diameter, a hypertension-related trait, in ECG-gated vs. non-gated images analyzed by IVAN and SIVA. Hypertension Research, 2016, 39, 886-892.	2.7	15
42	Flow-mediated slowing of brachial-radial pulse wave velocity: Methodological aspects and clinical determinants. Artery Research, 2018, 21, 29.	0.6	15
43	The risk of nephrolithiasis is causally related to inactive matrix Gla protein, a marker of vitamin K status: a Mendelian randomization study in a Flemish population. Nephrology Dialysis Transplantation, 2018, 33, 514-522.	0.7	15
44	Extremely Low Birth Weight Predisposes to Impaired Renal Health: A Pooled Analysis. Kidney and Blood Pressure Research, 2019, 44, 897-906.	2.0	15
45	Relative and Absolute Risk to Guide the Management of Pulse Pressure, an Age-Related Cardiovascular Risk Factor. American Journal of Hypertension, 2021, 34, 929-938.	2.0	15
46	Renal glomerular dysfunction in relation to retinal arteriolar narrowing and high pulse pressure in seniors. Hypertension Research, 2016, 39, 138-143.	2.7	14
47	Association of office and ambulatory blood pressure with blood lead in workers before occupational exposure. Journal of the American Society of Hypertension, 2018, 12, 14-24.	2.3	14
48	Central Hemodynamics in Relation to Circulating Desphospho–Uncarboxylated Matrix Gla Protein: A Population Study. Journal of the American Heart Association, 2019, 8, e011960.	3.7	14
49	PEAR1 is not a major susceptibility gene for cardiovascular disease in a Flemish population. BMC Medical Genetics, 2017, 18, 45.	2.1	13
50	Interpretation of Population Health Metrics. Hypertension, 2020, 75, 603-614.	2.7	13
51	Coronary risk in relation to genetic variation in MEOX2 and TCF15 in a Flemish population. BMC Genetics, 2015, 16, 116.	2.7	12
52	Study for Promotion of Health in Recycling Lead – Rationale and design. Blood Pressure, 2015, 24, 147-157.	1.5	12
53	ECG Voltage in Relation to Peripheral and Central Ambulatory Blood Pressure. American Journal of Hypertension, 2018, 31, 178-187.	2.0	12
54	Office and Home Blood Pressures as Determinants of Electrocardiographic Left Ventricular Hypertrophy Among Black Nigerians Compared With White Flemish. American Journal of Hypertension, 2017, 30, 1083-1092.	2.0	11

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55	Adherence to antihypertensive drug treatment in patients with apparently treatment-resistant hypertension in the INSPiRED pilot study. Blood Pressure, 2019, 28, 168-172.	1.5	11
56	Renal function in relation to low-level environmental lead exposure. Nephrology Dialysis Transplantation, 2019, 34, 941-946.	0.7	11
57	Ibuprofen exposure in early neonatal life does not affect renal function in young adolescence. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2018, 103, F107-F111.	2.8	10
58	Urinary peptidomic biomarkers of renal function in heart transplant recipients. Nephrology Dialysis Transplantation, 2019, 34, 1336-1343.	0.7	10
59	Retinal Microvasculature in Relation to Central Hemodynamics in a Flemish Population. Hypertension, 2019, 74, 606-613.	2.7	10
60	Serum and urinary biomarkers of collagen type–I turnover predict prognosis in patients with heart failure. Clinical and Translational Medicine, 2021, 11, e267.	4.0	10
61	Epidemiological and histological findings implicate matrix Gla protein in diastolic left ventricular dysfunction. PLoS ONE, 2018, 13, e0193967.	2.5	10
62	Aspirin use is associated with increased risk for incident heart failure: a patient–level pooled analysis. ESC Heart Failure, 2022, 9, 685-694.	3.1	10
63	Urinary Proteomics in Predicting Heart Transplantation Outcomes (uPROPHET)â€"Rationale and database description. PLoS ONE, 2017, 12, e0184443.	2.5	9
64	Urinary Proteomic Profile of Arterial Stiffness Is Associated With Mortality and Cardiovascular Outcomes. Journal of the American Heart Association, 2022, 11, e024769.	3.7	9
65	Reproducibility of Retinal Microvascular Traits Decoded by the Singapore I Vessel Assessment Software Across the Human Age Range. American Journal of Hypertension, 2018, 31, 438-449.	2.0	8
66	Ambulatory Blood Pressure in Relation to Plasma and Urinary Manganese. Hypertension, 2020, 75, 1133-1139.	2.7	8
67	Urinary proteomics combined with home blood pressure telemonitoring for health care reform trial: rational and protocol. Blood Pressure, 2021, 30, 269-281.	1.5	8
68	The novel proteomic signature for cardiac allograft vasculopathy. ESC Heart Failure, 2022, 9, 1216-1227.	3.1	8
69	Biomarkers to Assess Right Heart Pressures in Recipients of a Heart Transplant: A Proof-of-Concept Study. Transplantation Direct, 2018, 4, e346.	1.6	7
70	Starting Antihypertensive Drug Treatment With Combination Therapy. Hypertension, 2021, 77, 788-798.	2.7	7
71	Two-Year Responses of Heart Rate and Heart Rate Variability to First Occupational Lead Exposure. Hypertension, 2021, 77, 1775-1786.	2.7	7
72	Normal-tension glaucomatous optic neuropathy is related to blood pressure variability in the Maracaibo Aging Study. Hypertension Research, 2021, 44, 1105-1112.	2.7	7

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73	The missed diagnosis of aortic dissection in patients with acute myocardial infarction: a disastrous event. Journal of Thoracic Disease, 2017, 9, E636-E639.	1.4	6
74	The International Database of Central Arterial Properties for Risk Stratification: Research Objectives and Baseline Characteristics of Participants. American Journal of Hypertension, 2021, , .	2.0	6
75	Opportunities of Antidiabetic Drugs in Cardiovascular Medicine. Hypertension, 2020, 76, 420-431.	2.7	6
76	Conventional and Ambulatory Blood Pressure as Predictors of Diastolic Left Ventricular Function in a Flemish Population. Journal of the American Heart Association, 2018, 7, .	3.7	5
77	Retinal microcirculation and leukocyte telomere length in the general population. Scientific Reports, 2018, 8, 7095.	3.3	5
78	Implementing Automated Office Blood Pressure Measurement. Hypertension, 2019, 74, 441-449.	2.7	5
79	Two-Year Responses of Office and Ambulatory Blood Pressure to First Occupational Lead Exposure. Hypertension, 2020, 76, 1299-1307.	2.7	5
80	Retinal and Renal Microvasculature in Relation to Central Hemodynamics in 11‑Year‑Old Children Born Preterm or At Term. Journal of the American Heart Association, 2020, 9, e014305.	3.7	5
81	Open-Angle Glaucomatous Optic Neuropathy Is Related to Dips Rather Than Increases in the Mean Arterial Pressure Over 24-H. American Journal of Hypertension, 2022, 35, 703-714.	2.0	5
82	Dissecting the Polygenic Basis of Primary Hypertension: Identification of Key Pathway-Specific Components. Frontiers in Cardiovascular Medicine, 2022, 9, 814502.	2.4	5
83	Central hemodynamics in relation to blood lead in young men prior to chronic occupational exposure. Blood Pressure, 2019, 28, 279-290.	1.5	4
84	Urinary proteomic signatures associated with β-blockade and heart rate in heart transplant recipients. PLoS ONE, 2018, 13, e0204439.	2.5	3
85	Environmental exposure to lead: old myths never die. Lancet Public Health, The, 2018, 3, e362.	10.0	3
86	Central hemodynamics in relation to low-level environmental lead exposure. Blood Pressure, 2020, 29, 157-167.	1.5	3
87	Glomerular function in relation to fine airborne particulate matter in a representative population sample. Scientific Reports, 2021, 11, 14646.	3.3	3
88	Electrocardiographic left ventricular hypertrophy in relation to peripheral and central blood pressure indices in a Nigerian population. Blood Pressure, 2020, 29, 39-46.	1.5	2
89	A nomogram for predicting feasibility of laparoscopic anterior resection with trans-rectal specimen extraction (NOSES) in patients with upper rectal cancer. BMC Surgery, 2021, 21, 296.	1.3	2
90	Left ventricular mass in relation to midlife blood pressure. European Heart Journal, 2014, 35, 3242-3244.	2.2	1

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91	Diagnosis and Management of Resistant Hypertension. Hypertension, 2019, 74, 1064-1067.	2.7	1
92	Association of colorectal cancer with genetic and epigenetic variation in PEAR1â€"A population-based cohort study. PLoS ONE, 2022, 17, e0266481.	2.5	1
93	QTc intervals are not prolonged in former ELBW infants at pre-adolescent age. Pediatric Research, 2022, 92, 848-852.	2.3	1
94	Diastolic left ventricular function in relation to the retinal microvascular fractal dimension in a Flemish population. Hypertension Research, 2021, 44, 446-453.	2.7	0
95	Perinatal steroid exposure is not associated with impaired renal outcome in former extreme low birth weight at young adolescence. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO2-15-7.	0.0	0